



www.elsevier.com/locate/sna

Author Index for Volumes 71–74

Allen, T. R., Kupfer, J. A.: Application of Spherical Statistics to Change Vector Analysis of Landsat Data: Southern Appalachian Spruce-Fir Forests, 74:482

Álvarez-Pérez, J., Marshall, S. J., Gregson, K.: Resolution Improvement of ERS Scatterometer Data Over Land by Wiener Filtering, 71:261

Andréfouët, S.: See Matsakis, P.

Andreoli, G.: See Solheim, I.

Armstrong, E. M.: Satellite Derived Sea Surface Temperature Variability Off California During the Upwelling Season, 73:1

Armstrong, R. L.: See Tait, A. B.

Aslan, Z.: See Orun, A. B.

Asner, G. P., Lobell, D. B.: A Biogeophysical Approach for Automated SWIR Unmixing of Soils and Vegetation, 74:99

Asner, G. P., Wessman, C. A., Bateson, C. A., Privette, J. L.: Impact of Tissue, Canopy, and Landscape Factors on the Hyperspectral Reflectance Variability of Arid Ecosystems, 74:69

Asner, G. P.: See Privette, J. L. Asner, G. P.: See White, M. A. Axelrad, P.: See Komjathy, A.

Bacour, C.: See Jacquemoud, S.

Baker, J.: See Luckman, A. Ballans, H.: See Lagouarde, J.-P.

Ballast, A.: See de Jong, J.

Baret, F.: See Shabanov, N. V.

Barnsley, M. J., Hobson, P. D., Hyman, A. H., Lucht, W., Muller, J.-P., Strahler, A. H.: Characterizing the Spatial Variability of Broadband Albedo in a Semidesert Environment for MODIS Validation, 74:58

Barnsley, M. J.: See Lucht, W.

Barros, A. P.: See Bindlish, R. Bateson, C. A.: See Asner, G. P.

Bauer, M. E.: See Stuckens, J.

Beardsley, D.: See Gill, S. J.

Beaubien, J.: See Cihlar, J.

Beaudoin, A.: See Castel, T. Bégué, A.: See Nouvellon, Y.

Belchansky, G. I., Douglas, D. C.: Classification Methods for Monitoring Arctic Sea Ice Using OKEAN Passive/Active Two-Channel Microwave Data,

73:307

Berg, J.: See Simpson, J. J. Bijaoui, J.: See Durand, D.

Bindlish, R., Barros, A. P.: Multifrequency Soil Moisture Inversion from SAR Measurements with the Use of IEM, 71:67

Birkett, C. M.: Synergistic Remote Sensing of Lake Chad: Variability of Basin Inundation, 72:218

Blumberg, D. G., Freilikher, V., Lyalko, I. V., Vulfson, L. D., Kotlyar, A. L., Shevchenko, V. N.,

Ryabokonenko, A. D.: Soil Moisture (Water-Content) Assessment by an Airborne Scatterometer: The Chernobyl Disaster Area and the Negev Desert, 71:309

Boissard, P.: See Zribi, M.

Boles, S. H., Verbyla, D. L.: Comparison of Three AVHRR-Based Fire Detection Algorithms for Interior Alaska, 72:1

Born, G. H.: See Komjathy, A.

Borys, R. D.: See Pérez, J. C.

Breaker, L. C., Krasnopolsky, V. M., Maturi, E. M.: GOES-8 Imagery as a New Source of Data to Conduct Ocean Feature Tracking, 73:198

Breaker, L. C.: See Krasnopolsky, V. M.

Briantais, J.-M.: See Flexas, J.

Brooks, M. W.: See Guenther, G. C.

Brown, D. G., Duh, J-D., Drzyzga, S. A.: Estimating Error in an Analysis of Forest Fragmentation Change Using North American Landscape Characterization (NALC) Data, 71:106

Brown, L., Chen, J. M., Leblanc, S. G., Cihlar, J.: A Shortwave Infrared Modification to the Simple Ratio for LAI Retrieval in Boreal Forests: An Image and Model Analysis, 71:16

Brown de Colstoun, E.: See Daughtry, C. S. T. Bryant, R.: See Qi, J.

Calvet, J.-C.: See Wigneron, J.-P. Capolsini, P.: See Matsakis, P.

Carder, K. L.: See Hu, C.

Castel, T., Martinez, J.-M., Beaudoin, A., Wegmüller, U., Strozzi, T.: ERS INSAR Data for Remote Sensing Hilly Forested Areas, 73:73

Cauneau, F.: See Durand, D.

Cerovic, Z.: See Flexas, J.

Chan, J. C.-W.: See DeFries, R. S.

Chang, D.-H., Islam, S.: Estimation of Soil Physical Properties Using Remote Sensing and Artificial Neural Network, 74:534

Chanzy, A.: See Wigneron, J.-P.

Chen, J.: See Cihlar, J.

Chen, J. M.: See Brown, L.

Cheng, K.-S., Yeh, H.-C., Tsai, C.-H.: An Anisotropic Spatial Modeling Approach for Remote Sensing Image Rectification, 73:46

Chopping, M.: See Rango, A.

Chopping, M. J.: Large-Scale BRDF Retrieval over New Mexico with a Multiangular NOAA AVHRR Dataset, 74:163

Chopping, M. J.: Testing a LiSK BRDF Model with in Situ Bidirectional Reflectance Factor Measurements over Semiarid Grasslands, 74:287

Choudhury, B. J.: Evaluation of a Model Adaptable to Satellite Data for Estimating Daily Gross Photosynthesis, 71:133

Chunchuzov, I., Vachon, P. W., Li, X.: Analysis and Modeling of Atmospheric Gravity Waves Observed in RADARSAT SAR Images, 74:343

Chung, C-J. F.: See Schetselaar, E. M.

Ciarletti, V.: See Zribi, M.

Cihlar, J., Latifovic, R., Chen, J., Beaubien, J., Li, Z.: Selecting Representative High Resolution Sample Images for Land Cover Studies. Part 1: Methodology, 71:26

Cihlar, J., Latifovic, R., Chen, J., Beaubien, J., Li, Z., Magnussen, S.: Selecting Representative High Resolution Sample Images for Land Cover Studies. Part 2: Application to Estimating Land Cover Composition, 72:127

Cihlar, J.: See Brown, L.

Cihlar, J.: See Fraser, R. H.

Conel, J.: See Privette, J. L.

Coops, N., Culvenor, D.: Utilizing Local Variance of Simulated High Spatial Resolution Imagery to Predict Spatial Pattern of Forest Stands, 71:248

Coppin, P. R.: See Stuckens, J.

Coraboeuf, D.: See Lagouarde, J.-P.

Culvenor, D.: See Coops, N.

Daughtry, C. S. T., Walthall, C. L., Kim, M. S., Brown de Colstoun, E., McMurtrey, J. E., III.: Estimating Corn Leaf Chlorophyll Concentration from Leaf and Canopy Reflectance, 74:229

Daughtry, C. S. T.: See Nagler, P. L.

de Bruin, S.: Predicting the Areal Extent of Land-Cover Types Using Classified Imagery and Geostatistics, 74:387

DeFries, R. S., Chan, J. C.-W.: Multiple Criteria for Evaluating Machine Learning Algorithms for Land Cover Classification from Satellite Data, 74:503

De Grandi, G.: See Mayaux, P.

de Jong, J., Klaassen, W., Ballast, A.: Rain Storage in

Forests Detected with ERS Tandem Mission SAR, 72:170

de Leeuw, G.: See Veefkind, J. P.

Demarez, V., Gastellu-Etchegorry, J. P.: A Modeling Approach for Studying Forest Chlorophyll Content, 71:226

De Pauw, E.: See Thenkabail, P. S.

Derksen, C., LeDrew, E., Walker, A., Goodison, B.: Influence of Sensor Overpass Time on Passive Microwave-Derived Snow Cover Parameters, 71:297

Domingues, C. M., Gonçalves, G. A., Ghisolfi, R. D., Garcia, C. A. E., Advective Surface Velocities Dervived from Sequential Infrared Images in the Southwestern Atlantic Ocean, 73:218

Douglas, D. C.: See Belchansky, G. I.

Dozier, J.: See Nolin, A. W.

Drzyzga, S. A.: See Brown, D. G.

Dubovik, O.: See Smirnov, A.

Dugdale, G.: See Morland, J. C.

Duh, J-D.: See Brown, D. G.

Durand, D., Bijaoui, J., Cauneau, F.: Optical Remote Sensing of Shallow-Water Environmental Parameters: A Feasibility Study, 73:152

Dymond, J. R.: See Shepherd, J. D.

Eck, T. F.: See Smirnov, A.

Elmore, A. J., Mustard, J. F., Manning, S. J., Lobell, D. B.: Quantifying Vegetation Change in Semiarid Environments: Precision and Accuracy of Spectral Mixture Analysis and the Normalized Difference Vegetation Index, 73:87

Emery, W. J.: Editor's Note, 73:115

Engelsen, O.: See Solheim, I.

Fenstermaker, L.: See McGwire, K.

Fielding, E.: See Kenward, T.

Flexas, J., Briantais, J.-M., Cerovic, Z., Medrano, H., Moya, I.: Steady-State and Maximum Chlorophyll Fluorescence Responses to Water Stress in Grapevine Leaves: A New Remote Sensing System, 73:283

Flores, L. A., Martinez, L. I.: Land Cover Estimation in Small Areas Using Ground Survey and Remote Sensing, 74:240

Forget, P.: See Lahet, F.

Foster, J. L.: See Tait, A. B.

Frangi, J.-P.: See Jacquemoud, S.

Fraser, R. H., Li, Z., Cihlar, J.: Hotspot and NDVI Differencing Synergy (HANDS): A New Technique for Burned Area Mapping over Boreal Forest, 74:362

Freilikher, V.: See Blumberg, D. G.

French, A. N., Schmugge, T. J., Kustas, W. P.: Discrimination of Senescent Vegetation Using Thermal Emissivity Contrast, 74:249

Fromard, F.: See Proisy, C.

Fujiwara, G.: See Yokouchi, K.

Gamon, J. A.: See Serrano, L.

Gan, T. Y.: See Singh, P. R.

Ganapol, B. D.: See Yoshioka, H.

Gao, B.-C., Li, R.-R.: Quantitative Improvement in the Estimates of NDVI Values from Remotely Sensed Data by Correcting Thin Cirrus Scattering Effects, 74:494

Gao, X., Huete, A. R., Ni, W., Miura, T.: Optical-Biophysical Relationships of Vegetation Spectra without Background Contamination, 74:609

Garcia, C. A. E.: See Domingues, C. M. Garcia-Haro, F. J.: See Gilabert, M. A.

Garrison, J. L., Katzberg, S. J.: The Application of Reflected GPS Signals to Ocean Remote Sensing, 73:175

Garrison, J. L.: See Komjathy, A.

Gastellu-Etchegorry, J. P.: See Demarez, V.

Gelpi, C. G.: Removing Path-Scattered Radiance from Over-Ocean Spectrometer Images for Water Vapor Estimation, 74:414

Gemmell, F.: Testing the Utility of Multi-angle Spectral Data for Reducing the Effects of Background Spectral Variations in Forest Reflectance Model Inversion, 72:46

Gemmell, F., McDonald, A. J.: View Zenith Angle Effects on the Forest Information Content of Three Spectral Indices, 72:139

Gemmill, W. H.: See Krasnopolsky, V. M.

Gerstl, S. A. W.: See Qin, W.

Gerth, M.: See Siegel, H.

Ghisolfi, R. D.: See Domingues, C. M.

Gilabert, M. A., García-Haro, F. J., Meliá, J.: A
Mixture Modeling Approach to Estimate Vegetation
Parameters for Heterogeneous Canopies in Remote
Sensing, 72:328

Gill, S. J., Milliken, J., Beardsley, D., Warbington, R.: Using a Mensuration Approach with FIA Vegetation Plot Data to Assess the Accuracy of Tree Size and Crown Closure Classes in a Vegetation Map of Northeastern California, 73:298

Gonçalves, G. A.: See Domingues, C. M.

González, A.: See Pérez, J. C.

Goodenough, D. G.: See Wulder, M.

Goodison, B.: See Derksen, C.

Goward, S. N.: See Nagler, P. L.

Gregson, K.: See Álvarez-Pérez, J.

Grimes, D. I. F.: See Morland, J. C.

Gross, H. N.: See Robinson, G. D.

Guenther, G. C., Brooks, M. W., LaRocque, P. E.: New Capabilities of the "SHOALS" Airborne Lidar Bathymeter, 73:247

Guyon, D.: See Lagouarde, J.-P.

Hall, D. K.: See Tait, A. B.

Havstad, K.: See Rango, A.

Havstad, K. M., Kustas, W. P., Rango, A., Ritchie,

J. C., Schmugge, T. J.: Jornada Experimental Range: A Unique Arid Land Location for Experiments to Validate Satellite Systems, 74:13

Herrera, F.: See Pérez, J. C.

Hewison, T. J.: See Morland, J. C.

Hill, G. J. E.: See Phinn, S. R.

Hill, J., Schütt, B.: Mapping Complex Patterns of Erosion and Stability in Dry Mediterranean Ecosystems, 74:557

Ho, C.-R., Kuo, N.-J., Zheng, Q., Soong, Y. S.: Dynamically Active Areas in the South China Sea Detected from TOPEX/POSEIDON Satellite Altimeter Data, 71:320

Ho, C.-R.: See Kuo, N.-J.

Hobson, P.: See Lucht, W.

Hobson, P. D.: See Barnsley, M. J.

Hoffmann, A. A.: See Siegert, F.

Holben, B. N.: See Smirnov, A.

Hosgood, B.: See Solheim, I.

Howarth, P.: See Treitz, P.

Hu, B., Inannen, K., Miller, J. R.: Retrieval of Leaf Area Index and Canopy Closure from CASI Data over the BOREAS Flux Tower Sites, 74:255

Hu, B., Lucht, W., Strahler, A. H., Schaaf, C. B., Smith, M.: Surface Albedos and Angle-Corrected NDVI from AVHRR Observations of South America, 71:119

Hu, C., Carder, K. L., Muller-Karger, F. E.: Atmospheric Correction of SeaWiFS Imagery over Turbid Coastal Waters: A Practical Method, 74:195

Huemmrich, K. F.: See Privette, J. L.

Huete, A. R.: See Gao, X.

Huete, A. R.: See Qi, J.

Huete, A. R.: See Yoshioka, H.

Hufford, G.: See Simpson, J. J. Hwang, P. A., Krabill, W. B., Wright, W., Swift, R. N., Walsh, E. J.: Airborne Scanning Lidar Measurement of Ocean Waves, 73:236

Hyman, A. H.: See Barnsley, M. J. Hyman, A. H.: See Lucht, W.

I V C II D

Inannen, K.: See Hu, B. Islam, S.: See Chang, D.-H.

Jacquemoud, S., Bacour, C., Poilvé, H., Frangi, J.-P.: Comparison of Four Radiative Transfer Models to Simulate Plant Canopies Reflectance: Direct and Inverse Mode, 74:471 Jin, Z.: See Simpson, J. J.

Kafatos, M.: See Li, Z.

Karam, M. A.: See Proisy, C.

Katzberg, S. J.: See Garrison, J. L.

Kaufmann, H.: See Thiemann, S.

Kawamura, H.: See Luis, A. J.

Kawamura, H.: See Tanahashi, S.

Kawamura, H.: See Yokouchi, K.

Kenward, T., Lettenmaier, D. P., Wood, E. F.,

Fielding, E.: Effects of Digital Elevation Model Accuracy on Hydrologic Predictions, 74:432

Kerr, Y.: See Nouvellon, Y.

Kerr, Y.: See Wigneron, J.-P.

Kerr, Y. H.: See Qi, J.

Kim, K. E.: See Schetselaar, E. M.

Kim, M. S.: See Daughtry, C. S. T.

Klaassen, W.: See de Jong, J.

Knyazikhin, Y.: See Shabanov, N. V.

Koelemeijer, R. B. A.: See Veefkind, J. P.

Kogan, F. N.: Satellite-Observed Sensitivity of World Land Ecosystems to El Niño/La Niña, 74:445

Komjathy, A., Zavorotny, V. U., Axelrad, P., Born, G. H., Garrison, J. L.: GPS Signal Scattering from

Sea Surface: Wind Speed Retrieval Using Experimental Data and Theoretical Model, 73:162

Kotlyar, A. L.: See Blumberg, D. G.

Krabill, W. B.: See Hwang, P. A.

Krasnopolsky, V. M., Gemmill, W. H., Breaker, L. C.: A Neural Network Multiparameter Algorithm for SSM/I Ocean Retrievals: Comparisons and Validations, 73:133

Krasnopolsky, V. M.: See Breaker, L. C.

Kuo, N.-J., Zheng, Q., Ho, C.-R.: Satellite Observation of Upwelling along the Western Coast of the South China Sea, 74:463

Kuo, N.-J.: See Ho, C.-R.

Kupfer, J. A.: See Allen, T. R.

Kustas, W.: See Rango, A.

Kustas, W. P., Norman, J. M.: Evaluating the Effects of Subpixel Heterogeneity on Pixel Average Fluxes, 74:327

Kustas, W. P.: See French, A. N.

Kustas, W. P.: See Havstad, K. M.

Kuusk, A., Nilson, T.: A Directional Multispectral Forest Reflectance Model, 72:244

Lagouarde, J.-P., Ballans, H., Moreau, P., Guyon, D., Coraboeuf, D.: Experimental Study of Brightness Surface Temperature Angular Variations of Maritime Pine (*Pinus pinaster*) Stands, 72:17

Lahet, F., Ouillon, S., Forget, P.: A Three-Component Model of Ocean Color and Its Application in the Ebro River Mouth Area, 72:181

Lancaster, N., Schaber, G. G., Teller, J. T.: Orbital Radar Studies of Paleodrainages in the Central Namib Desert, 71:216

LaRocque, P. E.: See Guenther, G. C.

Latifovic, R.: See Cihlar, J.

Leblanc, S. G.: See Brown, L.

LeDrew, E.: See Derksen, C.

Le Hégarat-Mascle, S.: See Quesney, A.

Leone, A. P., Sommer, S.: Multivariate Analysis of Laboratory Spectra for the Assessment of Soil Development and Soil Degradation in the Southern Apennines (Italy), 72:346

Lettenmaier, D. P.: See Kenward, T.

Li, R.-R.: See Gao, B.-C.

Li, X.: See Chunchuzov, I.

Li, X.: See Ni, W.

Li, Z., Kafatos, M.: Interannual Variability of

Vegetation in the United States and Its Relation to El Niño/Southern Oscillation, 71:239

Li, Z.: See Cihlar, J.

Li, Z.: See Fraser, R. H.

Liljeberg, B. M.: See Michelson, D. B.

Lobell, D. B.: See Asner, G. P.

Lobell, D. B.: See Elmore, A. J.

Loumagne, C.: See Quesney, A.

Lowenthal, D. H.: See Pérez, J. C.

Lozano-García, D. F.: See Rio, J. N. R.

Lucht, W., Hyman, A. H., Strahler, A. H., Barnsley, M. J., Hobson, P., Muller, J.-P.: A Comparison of Satellite-Derived Spectral Albedos to Ground-Based Broadband Albedo Measurements Modeled to Satellite Spatial Scale for a Semidesert Landscape, 74:85

Lucht, W.: See Barnsley, M. J.

Lucht, W.: See Hu, B.

Luckman, A., Baker, J., Wegmüller, U.: Repeat-Pass Interferometric Coherence Measurements of Disturbed Tropical Forest from JERS and ERS Satellites, 73:350

Luis, A. J., Kawamura, H.: Wintertime Wind Forcing and Sea Surface Cooling Near the South India Tip Observed Using NSCAT and AVHRR, 73:55

Lyalko, I. V.: See Blumberg, D. G.

Maas, S. J.: Linear Mixture Modeling Approach for Estimating Cotton Canopy Ground Cover using Satellite Multispectral Imagery, 72:304

Magnussen, S.: See Cihlar, J.

Malingreau, J-P.: See Mayaux, P.

Manning, S. J.: See Elmore, A. J.

Marshall, S. J.: See Álvarez-Pérez, J.

Martinez, J.-M.: See Castel, T.

Martinez, L. I.: See Flores, L. A.

Matsakis, P., Andréfouët, S., Capolsini, P.: Evaluation of Fuzzy Partitions, 74:516

Matsumoto, I.: See Yokouchi, K.

Matsuura, T.: See Tanahashi, S.

Maturi, E. M.: See Breaker, L. C.

Mayaux, P., De Grandi, G., Malingreau, J-P.: Central African Forest Cover Revisited: A Multisatellite Anaylsis, 71:183

McDonald, A. J.: See Gemmell, F.

McGwire, K., Minor, T., Fenstermaker, L.:

Hyperspectral Mixture Modeling for Quantifying Sparse Vegetation Cover in Arid Environments, 72:360 McIntire, T.: See Simpson, J. J.

McMurtrey, J. E., III.: See Daughtry, C. S. T.

Medrano, H.: See Flexas, J.

Meliá, J.: See Gilabert, M. A.

Menges, C.: See Phinn, S. R.

Michelson, D. B., Liljeberg, B. M., Pilesjö, P.: Comparison of Algorithms for Classifying Swedish Landcover Using Landsat TM and ERS-1 SAR Data, 71:1

Miller, J. R.: See Hu, B.

Miller, J. R.: See Zarco-Tejada, P. J.

Milliken, J.: See Gill, S. J.

Minor, T.: See McGwire, K.

Miura, T.: See Gao, X.

Miura, T.: See Yoshioka, H.

Mohammed, G. H.: See Zarco-Tejada, P. J.

Moran, M. S.: See Nouvellon, Y.

Moran, M. S.: See Qi, J.

Moreau, P.: See Lagouarde, J.-P.

Morland, J. C., Grimes, D. I. F., Dugdale, G.,

Hewison, T. J.: The Estimation of Land Surface Emissivities at 24 GHz to 157 GHz Using Remotely

Sensed Aircraft Data, 73:323

Mougin, E.: See Proisy, C.

Moya, I.: See Flexas, J.

Muller, J.-P.: See Barnsley, M. J.

Muller, J.-P.: See Lucht, W.

Muller-Karger, F. E.: See Hu, C.

Mustard, J. F.: See Elmore, A. J.

Myneni, R. B.: See Shabanov, N. V.

Nagler, P. L., Daughtry, C. S. T., Goward, S. N.: Plant Litter and Soil Reflectance, 71:207

Natarajan, K.: See Orun, A. B.

Nemani, R. R.: See White, M. A.

Ni, W., Li, X.: A Coupled Vegetation-Soil Bidirectional Reflectance Model for a Semiarid Landscape, 74:113 Ni, W.: See Gao, X.

Niemann, K. O.: See Wulder, M.

Nilson, T: See Kuusk, A.

Noland, T. L.: See Zarco-Tejada, P. J.

Nolin, A. W., Dozier, J.: A Hyperspectral Method for Remotely Sensing the Grain Size of Snow, 74:207

Norman, J. M.: See Kustas, W. P.

Normand, M: See Quesney, A.

Nouvellon, Y., Seen, D. L., Rambal, S., Bégué, A., Moran, M. S., Kerr, Y., Qi, J.: Time Course of Radiation Use Efficiency in a Shortgrass Ecosystem: Consequences for Remotely Sensed Estimation of Primary Production, 71:43

Okuda, K.: See Yokouchi, K.

Olson, R.: See Privette, J. L.

Orun, A. B., Natarajan, K., Aslan, Z.: A Comparative Study of Meteosat, ECMWF, and Radiosonde Wind Vectors at Istanbul, 72:309 Ouillon, S.: See Lahet, F.

Paillé, J.: See Zribi, M.

Peñuelas, J.: See Serrano, L.

Pérez, J. C., Herrera, F., Rosa, F., González, A.,

Wetzel, M. A., Borys, R. D., Lowenthal, D. H.:

Retrieval of Marine Stratus Cloud Droplet Size from NOAA-AVHRR Nighttime Imagery, 73:31

Phinn, S.: See Scarth, P.

Phinn, S. R., Menges, C., Hill, G. J. E., Stanford, M.: Optimizing Remotely Sensed Solutions for Monitoring, Modeling, and Managing Coastal Environments,

Pieri, D.: See Simpson, J. J.

Pilesjö P.: See Michelson, D. B.

Poilvé, H.: See Jacquemoud, S.

Privette, J. L., Asner, G. P., Conel, J., Huemmrich, K. F., Olson, R., Rango, A., Rahman, A. F., Thome, K., Walter-Shea, E. A.: The EOS Prototype Validation Exercise (PROVE) at Jornada: Overview and Lessons Learned, 74:1

Privette, J. L.: See Asner, G. P.

Privette, J. L.: See White, M. A.

Proisy, C., Mougin, E., Fromard, F., Karam, M. A.: Interpretation of Polarimetric Radar Signatures of Mangrove Forests, 71:56

Qi, J., Kerr, Y. H., Moran, M. S., Weltz, M., Huete, A. R., Sorooshian, S., Bryant, R.: Leaf Area Index Estimates Using Remotely Sensed Data and BRDF Models in a Semiarid Region, 73:18

Qi, J.: See Nouvellon, Y.

Qin, W., Gerstl, S. A. W.: 3-D Scene Modeling of Semidesert Vegetation Cover and its Radiation Regime, 74:145

Qong, M.: Sand Dune Attributes Estimated from SAR Images, 74:217

Quesney, A., Le Hégarat-Mascle, S., Taconet, O.,

Vidal-Madjar, D., Wigneron, J. P., Loumagne, C., Normand, M.: Estimation of Watershed Soil Moisture Index from ERS/SAR Data, 72:290

Rahman, A. F.: See Privette, J. L.

Rambal, S.: See Nouvellon, Y.

Rango, A., Chopping, M., Ritchie, J., Havstad, K.,

Kustas, W., Schmugge, T.: Morphological

Characteristics of Shrub Coppice Dunes in Desert Grasslands of Southern New Mexico derived from Scanning LIDAR, 74:26

Rango, A.: See Havstad, K. M.

Rango, A.: See Privette, J. L.

Rio, J. N. R., Lozano-García, D. F.: Spatial Filtering of Radar Data (RADARSAT) for Wetlands (Brackish Marshes) Classification, 73:143

Ritchie, J.: See Rango, A.

Ritchie, J. C.: See Havstad, K. M.

Roberts, D. A.: See Serrano, L.

Robinson, G. D., Gross, H. N., Schott, J. R.: Evaluation of Two Applications of Spectral Mixing Models to Image Fusion, 71:272

Rosa, F.: See Pérez, J. C.

Roujean, J-L.: A Parametric Hot Spot Model for Optical Remote Sensing Applications, 71:197

Running, S. W.: See White, M. A.

Ryabokonenko, A. D.: See Blumberg, D. G.

Sampson, P. H.: See Zarco-Tejada, P. J. Sandmeier, S. R.: Acquisition of Bidirectional Reflectance Factor Data with Field Goniometers, 73:257

Scarth, P., Phinn, S.: Determining Forest Structural Attributes Using an Inverted Geometric-Optical Model in Mixed Eucalypt Forests, Southeast Queensland, Australia, 71:141

Schaaf, C. B.: See Hu, B.

Schaber, G. G.: See Lancaster, N.

Schetselaar, E. M., Chung, C-J. F., Kim, K. E.: Integration of Landsat TM, Gamma-Ray, Magnetic, and Field Data to Discriminate Lithological Units in Vegetated Granite-Gneiss Terrain, 71:89

Schmugge, T.: See Rango, A.

Schmugge, T. J.: See French, A. N.

Schmugge, T. J.: See Havstad, K. M.

Schott, J. R.: See Robinson, G. D.

Schütt, B.: See Hill, J.

Seen, D. L.: See Nouvellon, Y.

Serrano, L., Ustin, S. L., Roberts, D. A., Gamon, J. A., Peñuelas, J.: Deriving Water Content of Chaparral Vegetation from AVIRIS Data, 74:570

Shabanov, N. V., Knyazikhin, Y., Baret, F., Myneni, R. B.: Stochastic Modeling of Radiation Regime in Discontinuous Vegetation Canopies, 74:125

Shaw, A. G. P., Vennell, R.: A Front-Following Algorithm for AVHRR SST Imagery, 72:317

Shepherd, J. D., Dymond, J. R.: BRDF Correction of Vegetation in AVHRR Imagery, 74:397

Shevchenko, V. N.: See Blumberg, D. G.

Siegel, H., Gerth, M.: Satellite-Based Studies of the 1997 Oder Flood Event in the Southern Baltic Sea, 73:207

Siegert, F., Hoffmann, A. A.: The 1998 Forest Fires in East Kalimantan (Indonesia): A Quantitative Evaluation Using High Resolution, Multitemporal ERS-2 SAR Images and NOAA-AVHRR Hotspot Data, 72:64

Simpson, J. J., Hufford, G., Pieri, D., Berg, J.: Failures in Detecting Volcanic Ash from a Satellite-Based Technique, 72:191

Simpson, J. J., McIntire, T., Jin, Z., Stitt, J. R.: Improved Cloud Top Height Retrieval under Arbitrary Viewing and Illumination Conditions Using AVHRR Data, 72:95

Singh, P. R., Gan, T. Y.: Retrieval of Snow Water

Equivalent Using Passive Microwave Brightness Temperature Data, 74:275

Slutsker, I.: See Smirnov, A.

Smirnov, A., Holben, B. N., Eck, T. F., Dubovik, O., Slutsker, I.: Cloud-Screening and Quality Control Algorithms for the AERONET Database, 73:337 Smith, M.: See Hu, B.

Smith, R. B.: See Thenkabail, P. S.

Solheim, I., Engelsen, O., Hosgood, B., Andreoli, G.: Measurement and Modeling of the Spectral and Directional Reflection Properties of Lichen and Moss Canopies, 72:78

Sommer, S.: See Leone, A. P.

Soong, Y. S.: See Ho, C.-R.

Sorooshian, S.: See Qi, J.

Stammes, P.: See Veefkind, J. P.

Stanford, M.: See Phinn, S. R.

Steele, B. M.: Combining Multiple Classifiers: An Application Using Spatial and Remotely Sensed Information for Land Cover Type Mapping, 74:545

Stehman, S. V.: Practical Implications of Design-Based Sampling Inference for Thematic Map Accuracy Assessment, 72:35

Stitt, J. R.: See Simpson, J. J.

Strahler, A. H.: See Barnsley, M. J.

Strahler, A. H.: See Hu, B.

Strahler, A. H.: See Lucht, W.

Strozzi, T.: See Castel, T.

Stuckens, J., Coppin, P. R., Bauer, M. E.: Integrating Contextual Information with per-Pixel Classification for Improved Land Cover Classification, 71:282 Swift, R. N.: See Hwang, P. A.

Taconet, O.: See Quesney, A.

Taconet, O.: See Zribi, M.

Tait, A. B., Hall, D. K., Foster, J. L., Armstrong,R. L.: Utilizing Multiple Datasets for Snow-Cover Mapping, 72:111

Takahashi, T.: See Tanahashi, S.

Takeshi, K.: See Yokouchi, K.

Tanahashi, S., Kawamura, H., Matsuura, T., Takahashi, T., Yusa, H.: Improved Estimates of Hourly Insolation from GMS S-VISSR Data, 74:409

Tanis, F. J.: Introduction, 73:116

Teller, J. T.: See Lancaster, N.

Thenkabail, P. S., Smith, R. B., De Pauw, E.: Hyperspectral Vegetation Indices and Their Relationships with Agricultural Crop Characteristics, 71:158

Thiemann, S., Kaufmann, H.: Determination of Cholorophyll Content and Trophic State of Lakes Using Field Spectrometer and IRS-1C Satellite Data in the Mecklenburg Lake District, Germany, 73:227 Thomas K.: Saa Privatta, J. I.

Thome, K.: See Privette, J. L.

Tokola, T.: The Influence of Field Sample Data Location on Growing Stock Volume Estimation in Landsat TM-Based Forest Inventory in Eastern Finland, 74:422.

Townsend, P. A.: A Quantitative Fuzzy Approach to Assess Mapped Vegetation Classifications for Ecological Applications, 72:253

Treitz, P., Howarth, P.: High Spatial Resolution Remote Sensing Data for Forest Ecosystem Classification: An Examination of Spatial Scale, 72:268 Tsai, C.-H.: See Cheng, K.-S.

Ustin, S. L.: See Serrano, L.

Vachon, P. W.: See Chunchuzov, I. Veefkind, J. P., de Leeuw, G., Stammes, P., Koelemeijer, R. B. A.: Regional Distribution of Aerosol over Land, Derived from ATSR-2 and GOME, 74:377

Vennell, R.: See Shaw, A. G. P. Verbyla, D. L.: See Boles, S. H. Vidal-Madjar, D.: See Quesney, A. Vulfson, L. D.: See Blumberg, D. G.

Waldteufel, P.: See Wigneron, J.-P. Walker, A.: See Derksen, C. Walsh, E. J.: See Hwang, P. A. Walter-Shea, E. A.: See Privette, J. L. Walthall, C. L.: See Daughtry, C. S. T.

Warbington, R.: See Gill, S. J.

Watson, K.: A Diurnal Animation of Thermal Images from a Day–Night Pair, 72:237

Wegmüller, U.: See Castel, T. Wegmüller, U.: See Luckman, A. Weltz, M.: See Qi, J.

Wessman, C. A.: See Asner, G. P. Wetzel, M. A.: See Pérez, J. C.

White, M. A., Asner, G. P., Nemani, R. R., Privette, J. L., Running, S. W.: Measuring Fractional Cover and Leaf Area Index in Arid Ecosystems: Digital Camera, Radiation Transmittance, and Laser Altimetry Methods, 74:45

Wigneron, J.-P., Waldteufel, P., Chanzy, A., Calvet, J.-C., Kerr, Y.: Two-Dimensional Microwave

Surfaces (SMOS Mission), 73:270
Wigneron, J. P.: See Quesney, A.
Wood, E. F.: See Kenward, T.
Wright, W.: See Hwang, P. A.
Wulder, M., Niemann, K. O., Goodenough, D. G.:
Local Maximum Filtering for the Extraction of Tree
Locations and Basal Area from High Spatial
Resolution Imagery, 73:103

Interferometer Retrieval Capabilities over Land

Yeh, H.-C.: See Cheng, K.-S.
Yokouchi, K., Takeshi, K., Matsumoto, I., Fujiwara, G., Kawamura, H., Okuda, K.: OCTS-Derived
Chlorophyll-a Concentration and Oceanic Structure in the Kuroshio Frontal Region off the Joban/Kashima Coast of Japan, 73:188
Yoshioka, H., Miura, T., Huete, A. R., Ganapol, B. D.: Analysis of Vegetation Isolines in Red-NIR

Reflectance Space, 74:313 Yusa, H.: See Tanahashi, S.

Zarco-Tejada, P. J., Miller, J. R., Mohammed, G. H., Noland, T. L.: Chlorophyll Fluorescence Effects on Vegetation Apparent Reflectance: I. Leaf-Level Measurements and Model Simulation, 74:582 Zarco-Tejada, P. J., Miller, J. R., Mohammed, G. H.,

Zarco-Tejada, P. J., Miller, J. R., Mohammed, G. H., Noland, T. L., Sampson, P. H.: Chlorophyll Fluorescence Effects on Vegetation Apparent Reflectance: II. Laboratory and Airborne Canopy-Level Measurements with Hyperspectral Data, 74:596 Zavorotny, V. U.: See Komjathy, A.

Zheng, Q.: See Ho, C.-R. Zheng, Q.: See Kuo, N.-J.

Zribi, M., Ciarletti, V., Taconet, O.: Validation of a Rough Surface Model Based on Fractional Brownian Geometry with SIRC and ERASME Radar Data over Orgeval, 73:65

Zribi, M., Ciarletti, V., Taconet, O., Paillé, J., Boissard, P.: Characterisation of the Soil Structure and Microwave Backscattering Based on Numerical Three-Dimensional Surface Representation: Analysis with a Fractional Brownian Model, 72:159



www.elsevier.com/locate/sna

Subject Index for Volumes 71–74

Accuracy Assessment

An Anisotropic Spatial Modeling Approach for Remote Sensing Image Rectification, K.-S. Cheng, H.-C. Yeh, C.-H. Tsai, 73:46

Combining Multiple Classifiers: An Application Using Spatial and Remotely Sensed Information for Land Cover Type Mapping, B. M. Steele, 74:545

Comparison of Three AVHRR-Based Fire Detection Algorithms for Interior Alaska, S. H. Boles, D. L. Verbyla, 72:1

Estimating Error in an Analysis of Forest Fragmentation Change Using North American Landscape Characterization (NALC) Data, D. G. Brown, J.-D. Duh, S. A. Drzyzga, 71:106

Evaluating the Effects of Subpixel Heterogeneity on Pixel Average Fluxes, W. P. Kustas, J. M. Norman, 74:327

The Influence of Field Sample Data Location on Growing Stock Volume Estimation in Landsat TM-Based Forest Inventory in Eastern Finland, T. Tokola, 74:422

Quantifying Vegetation Change in Semiarid Environments: Precision and Accuracy of Spectral Mixture Analysis and the Normalized Difference Vegetation Index, A. J. Elmore, J. F. Mustard, S. J. Manning, D. B. Lobell, 73:87

A Quantitative Fuzzy Approach to Assess Mapped Vegetation Classifications for Ecological Applications, P. A. Townsend, 72:253

Practical Implications of Design-Based Sampling Inference for Thematic Map Accuracy Assessment, S. V. Stehman, 72:35

Using a Mensuration Approach with FIA Vegetation Plot Data to Assess the Accuracy of Tree Size and Crown Closure Classes in a Vegetation Map of Northeastern California, S. J. Gill, J. Milliken, D. Beardsley, R. Warbington, 73:298

Aircraft Observations

Effects of Digital Elevation Model Accuracy on Hydrologic Predictions, T. Kenward, D. P. Lettenmaier, E. F. Wood, E. Fielding, 74:432 The Estimation of Land Surface Emissivities at 24 GHz to 157 GHz Using Remotely Sensed Aircraft Data, Algorithms
Classification Methods for Monitoring Arctic Sea Ice
Using OKEAN Passive/Active Two-Channel Microwave

Hewison, 73:323

Data, G. I. Belchansky, D. C. Douglas, 73:307 Cloud-Screening and Quality Control Algorithms for the AERONET Database, A. Smirnov, B. N. Holben, T. F. Eck, O. Dubovik, I. Slutsker, 73:337

J. C. Morland, D. I. F. Grimes, G. Dugdale, T. J.

Comparison of Algorithms for Classifying Swedish Landcover Using Landsat TM and ERS-1 SAR Data, D. B. Michelson, B. M. Liljeberg, P. Pilesj, 71:1

Comparison of Three AVHRR-Based Fire Detection Algorithms for Interior Alaska, S. H. Boles, D. L. Verbyla, 72:1

A Front-Following Algorithm for AVHRR SST Imagery, A. G. P. Shaw, R. Vennell, 72:317

Large-Scale BRDF Retrieval over New Mexico with a Multiangular NOAA AVHRR Dataset, M. J. Chopping, 74:163

Multiple Criteria for Evaluating Machine Learning Algorithms for Land Cover Classification from Satellite Data, R. S. DeFries, J. C.-W. Chan, 74:503

A Neural Network Multiparameter Algorithm for SSM/I Ocean Retrievals: Comparisons and Validations, V. M. Krasnopolsky, W. H. Gemmill, L. C. Breaker, 73:133

Retrieval of Snow Water Equivalent Using Passive Microwave Brightness Temperature Data, P. R. Singh, T. Y. Gan, 74:275

Selecting Representative High Resolution Sample Images for Land Cover Studies. Part 1: Methodology, J. Cihlar, R. Latifovic, J. Chen, J. Beaubien, Z. Li, 71:26

Selecting Representative High Resolution Sample Images for Land Cover Studies. Part 2: Application to Estimating Land Cover Composition, J. Cihlar, R. Latifovic, J. Chen, J. Beaubien, Z. Li, S. Magnussen, 72:127

Spatial Filtering of Radar Data (RADARSAT) for Wetlands (Brackish Marshes) Classification, J. Noriega Rivera Rio, D. F. Lozano-García, 73:143

Altimetry

Dynamically Active Areas in the South China Sea

Detected from TOPEX/POSEIDON Satellite Altimeter Data, C.-R. Ho, N.-J. Kuo, Q. Zheng, Y. S. Soong, 71:320

Synergistic Remote Sensing of Lake Chad: Variability of Basin Inundation, C. M. Birkett, 72:218

Animation

74:387

A Diurnal Animation of Thermal Images from a Day–Night Pair, K. Watson, 72:237

Area Estimation

Land Cover Estimation in Small Areas Using Ground Survey and Remote Sensing, L. A. Flores, L. I. Martínez, 74:240

Morphological Characteristics of Shrub Coppice Dunes in Desert Grasslands of Southern New Mexico derived from Scanning LIDAR, A. Rango, M. Chopping, J. Ritchie, K. Havstad, W. Kustas, T. Schmugge, 74:26 Predicting the Areal Extent of Land-Cover Types Using Classified Imagery and Geostatistics, S. de Bruin,

Atmosphere Properties

Failures in Detecting Volcanic Ash from a Satellite-Based Technique, J. J. Simpson, G. Hufford, D. Pieri, J. Berg, 72:191

Regional Distribution of Aerosol over Land, Derived from ATSR-2 and GOME, J. Pepijn Veefkind, G. de Leeuw, P. Stammes, R. B. A. Koelemeijer, 74:377 Removing Path-Scattered Radiance from Over-Ocean Spectrometer Images for Water Vapor Estimation, C. G. Gelpi, 74:414

Atmospheric Effects

Analysis and Modeling of Atmospheric Gravity Waves Observed in RADARSAT SAR Images, I. Chunchuzov, P. W. Vachon, X. Li, 74:343

AVHRR

BRDF Correction of Vegetation in AVHRR Imagery, J. D. Shepherd, J. R. Dymond, 74:397

Comparison of Three AVHRR-Based Fire Detection Algorithms for Interior Alaska, S. H. Boles, D. L. Verbyla, 72:1

Central African Forest Cover Revisited: A Multisatellite Analysis, P. Mayaux, G. De Grandi, J.-P. Malingreau, 71:183

The 1998 Forest Fires in East Kalimantan (Indonesia): A Quantitative Evaluation Using High Resolution, Multitemporal ERS-2 SAR Images and NOAA-AVHRR Hotspot Data, F. Siegert, A. A. Hoffmann, 72:64

A Front-Following Algorithm for AVHRR SST Imagery, A. G. P. Shaw, R. Vennell, 72:317

Improved Cloud Top Height Retrieval under Arbitrary Viewing and Illumination Conditions Using AVHRR Data, J. J. Simpson, T. McIntire, Z. Jin, J. R. Stitt, 72:95

Interannual Variability of Vegetation in the United States and Its Relation to El Ni»o/Southern Oscillation, Z. Li, M. Kafatos, 71:239

Large-Scale BRDF Retrieval over New Mexico with a Multiangular NOAA AVHRR Dataset, M. J. Chopping, 74:163

Retrieval of Marine Stratus Cloud Droplet Size from NOAA–AVHRR Nighttime Imagery, J. C. Pérez, F. Herrera, F. Rosa, A. González, M. A. Wetzel, R. D. Borys, D. H. Lowenthal, 73:31

Satellite Observation of Upwelling along the Western Coast of the South China Sea, N.-J. Kuo, Q. Zheng, C.-R. Ho, 74:463

Satellite-Observed Sensitivity of World Land Ecosystems to El Niño/La Niña, F. N. Kogan, 74:445

Surface Albedos and Angle-Corrected NDVI from AVHRR Observations of South America, B. Hu, W. Lucht, A. H. Strahler, C. B. Schaaf, M. Smith, 71:119 Synergistic Remote Sensing of Lake Chad: Variability of Basin Inundation, C. M. Birkett, 72:218

Wintertime Wind Forcing and Sea Surface Cooling Near the South India Tip Observed Using NSCAT and AVHRR, A. J. Luis, H. Kawamura, 73:55

Canopy Reflectance Modeling

Comparison of Four Radiative Transfer Models to Simulate Plant Canopies Reflectance: Direct and Inverse Mode, S. Jacquemoud, C. Bacour, H. Poilvé, J.-P. Frangi, 74:471

A Shortwave Infrared Modification to the Simple Ratio for LAI Retrieval in Boreal Forests: An Image and Model Analysis, L. Brown, J. M. Chen, S. G. Leblanc, J. Cihlar, 71:16

Change Detection

Application of Spherical Statistics to Change Vector Analysis of Landsat Data: Southern Appalachian Spruce–Fir Forests, T. R. Allen, J. A. Kupfer, 74:482 Hotspot and NDVI Differencing Synergy (HANDS): A New Technique for Burned Area Mapping over Boreal Forest, R. H. Fraser, Z. Li, J. Cihlar, 74:362

Chlorophyll

Atmospheric Correction of SeaWiFS Imagery over Turbid Coastal Waters: A Practical Method, C. Hu, K. L. Carder, F. E. Muller-Karger, 74:195

Chlorophyll Fluorescence Effects on Vegetation Apparent Reflectance: I. Leaf-Level Measurements and Model Simulation, P. J. Zarco-Tejada, J. R. Miller, G. H. Mohammed, T. L. Noland, 74:582

Chlorophyll Fluorescence Effects on Vegetation Apparent Reflectance: II. Laboratory and Airborne Canopy-Level Measurements with Hyperspectral Data, P. J. Zarco-Tejada, J. R. Miller, G. H. Mohammed, T. L. Noland, P. H. Sampson, 74:596

Determination of Chlorophyll Content and Trophic State of Lakes Using Field Spectrometer and IRS-1C Satellite Data in the Mecklenburg Lake District, Germany, S. Thiemann, H. Kaufmann, 73:227

Estimating Corn Leaf Chlorophyll Concentration from Leaf and Canopy Reflectance, C. S. T. Daughtry, C. L. Walthall, M. S. Kim, E. Brown de Colstoun, J. E. McMurtrey III, 74:229

A Modeling Approach for Studying Forest Chlorophyll Content, V. Demarez, J. P. Gastellu-Etchegorry, 71:226

OCTS-Derived Chlorophyll-a Concentration and Oceanic Structure in the Kuroshio Frontal Region off the Joban/Kashima Coast of Japan, K. Yokouchi, K. Takeshi, I. Matsumoto, G. Fujiwara, H. Kawamura, and K. Okuda, 73:188

Steady-State and Maximum Chlorophyll Fluorescence Responses to Water Stress in Grapevine Leaves: A New Remote Sensing System, J. Flexas, J.-M. Briantais, Z. Cerovic, H. Medrano, I. Moya, 73:283

Climate

Interannual Variability of Vegetation in the United States and Its Relation to El Ni»o/Southern Oscillation, Z. Li, M. Kafatos, 71:239

Clouds

Cloud-Screening and Quality Control Algorithms for the AERONET Database, A. Smirnov, B. N. Holben, T. F. Eck, O. Dubovik, I. Slutsker, 73:337

A Comparative Study of Meteosat, ECMWF, and Radiosonde Wind Vectors at Istanbul, A. B. Orun, K. Natarajan, Z. Aslan, 72:309

Improved Cloud Top Height Retrieval under Arbitrary Viewing and Illumination Conditions Using AVHRR Data, J. J. Simpson, T. McIntire, Z. Jin, J. R. Stitt, 72:95

Improved Estimates of Hourly Insolation from GMS S-VISSR Data, S. Tanahashi, H. Kawamura, T. Matsuura, T. Takahashi, H. Yusa, 74:409

Quantitative Improvement in the Estimates of NDVI Values for Remotely Sensed Data by Correcting Thin Cirrus Scattering Effects, B.-C. Gao, R.-R. Li, 74:494 Retrieval of Marine Stratus Cloud Droplet Size from NOAA AVHRR Nighttime Imagery, L.C. Pérez, F.

NOAA-AVHRR Nighttime Imagery, J. C. Pérez, F. Herrera, F. Rosa, A. González, M. A. Wetzel, R. D. Borys, D. H. Lowenthal, 73:31

Coastal Environments

Advective Surface Velocities Derived from Sequential Infrared Images in the Southwestern Atlantic Ocean, C. M. Domingues, G. A. Gon‡alves, R. D. Ghisolfi, C. A. E. Garcia, 73:218

Atmospheric Correction of SeaWiFS Imagery over Turbid Coastal Waters: A Practical Method, C. Hu, K. L. Carder, F. E. Muller-Karger, 74:195

GOES-8 Imagery as a New Source of Data to Conduct Ocean Feature Tracking, L. C. Breaker, V. M. Krasnopolsky, E. M. Maturi, 73:198

New Capabilities of the "SHOALS" Airborne Lidar Bathymeter, G. C. Guenther, M. W. Brooks, P. E. LaRocque, 73:247

OCTS-Derived Chlorophyll-a Concentration and Oceanic Structure in the Kuroshio Frontal Region off the Joban/Kashima Coast of Japan, K. Yokouchi, K. Takeshi, I. Matsumoto, G. Fujiwara, H. Kawamura, and K. Okuda, 73:188

Optical Remote Sensing of Shallow-Water Environmental Parameters: A Feasibility Study, D. Durand, J. Bijaoui, F. Cauneau, 73:152

Optimizing Remotely Sensed Solutions for Monitoring, Modeling, and Managing Coastal Environments, S. R. Phinn, C. Menges, G. J. E. Hill, M. Stanford, 73:117 Satellite Observation of Upwelling along the Western

Coast of the South China Sea, N.-J. Kuo, Q. Zheng, C.-R. Ho, 74:463

Satellite-Based Studies of the 1997 Oder Flood Event in the Southern Baltic Sea, H. Siegel, M. Gerth, 73:207 Spatial Filtering of Radar Data (RADARSAT) for Wetlands (Brackish Marshes) Classification, J. Noriega Rivera Rio, D. F. Lozano-García, 73:143

A Three-Component Model of Ocean Color and Its Application in the Ebro River Mouth Area, F. Lahet, S. Ouillon, P. Forget, 72:181

Wintertime Wind Forcing and Sea Surface Cooling Near the South India Tip Observed Using NSCAT and AVHRR, A. J. Luis, H. Kawamura, 73:55

Crops

Martínez, 74:240

Estimating Corn Leaf Chlorophyll Concentration from Leaf and Canopy Reflectance, C. S. T. Daughtry, C. L. Walthall, M. S. Kim, E. Brown de Colstoun, J. E. McMurtrey III, 74:229

Hyperspectral Vegetation Indices and Their Relationships with Agricultural Crop Characteristics, P. S. Thenkabail, R. B. Smith, E. De Pauw, 71:158 Land Cover Estimation in Small Areas Using Ground Survey and Remote Sensing, L. A. Flores, L. I.

Linear Mixture Modeling Approach for Estimating Cotton Canopy Ground Cover using Satellite Multispectral Imagery, S. J. Mass, 72:304

Mapping Complex Patterns of Erosion and Stability in Dry Mediterranean Ecosystems, J. Hill, B. Schütt, 74:557

Predicting the Areal Extent of Land-Cover Types Using Classified Imagery and Geostatistics, S. de Bruin, 74:387

3D Modeling

3-D Scene Modeling of Semidesert Vegetation Cover and Its Radiation Regime, W. Qin, S. A. W. Gerstl, 74:145

Optical-Biophysical Relationships of Vegetation Spectra without Background Contamination, X. Gao, A. R. Huete, W. Ni, T. Miura, 74:609

Desert (See also Jornada)

Evaluating the Effects of Subpixel Heterogeneity on Pixel Average Fluxes, W. P. Kustas, J. M. Norman, 74:327

Hyperspectral Mixture Modeling for Quantifying Sparse Vegetation Cover in Arid Environments, K. McGwire, T. Minor, L. Fenstermaker, 72:360

Leaf Area Index Estimates Using Remotely Sensed Data and BRDF Models in a Semiarid Region, J. Qi, Y. H. Kerr, M. S. Moran, M. Weltz, A. R. Huete, S. Sorooshian, R. Bryant, 73:18

Orbital Radar Studies of Paleodrainages in the Central Namib Desert, N. Lancaster, G. G. Schaber, J. T. Teller, 71:216

Quantifying Vegetation Change in Semiarid Environments: Precision and Accuracy of Spectral Mixture Analysis and the Normalized Difference Vegetation Index, A. J. Elmore, J. F. Mustard, S. J. Manning, D. B. Lobell, 73:87

Sand Dune Attributes Estimated from SAR Images, M. Qong, 74:217

Soil Moisture (Water-Content) Assessment by an Airborne Scatterometer: The Chernobyl Disaster Area and the Negev Desert, D. G. Blumberg, V. Freilikher, I. V. Lyalko, L. D. Vulfson, A. L. Kotlyar, V. N. Shevchenko, A. D. Ryabokonenko, 71:309

El Niño/La Niña

Dynamically Active Areas in the South China Sea Detected from TOPEX/POSEIDON Satellite Altimeter Data, C.-R. Ho, N.-J. Kuo, Q. Zheng, Y. S. Soong, 71:320

Interannual Variability of Vegetation in the United States and Its Relation to El Niño/Southern Oscillation, Z. Li, M. Kafatos, 71:239

Satellite-Observed Sensitivity of World Land Ecosystems to El Niño/La Niña, F. N. Kogan, 74:445

Environmental Damage

Cloud-Screening and Quality Control Algorithms for the AERONET Database, A. Smirnov, B. N. Holben, T. F. Eck, O. Dubovik, I. Slutsker, 73:337

Regional Distribution of Aerosol over Land, Derived from ATSR-2 and GOME, J. Pepijn Veefkind, G. de Leeuw, P. Stammes, R. B. A. Koelemeijer, 74:377

Estimating Production

Time Course of Radiation Use Efficiency in a Shortgrass

Ecosystem: Consequences for Remotely Sensed Estimation of Primary Production, Y. Nouvellon, D. Lo Seen, S. Rambal, A. Bégué, M. S. Moran, Y. Kerr, J. Qi, 71:43

Field Measurements (See also Jornada)

Acquisition of Bidirectional Reflectance Factor Data with Field Goniometers, S. R. Sandmeier, 73:257

Fire

Comparison of Three AVHRR-Based Fire Detection Algorithms for Interior Alaska, S. H. Boles, D. L. Verbyla, 72:1

The 1998 Forest Fires in East Kalimantan (Indonesia): A Quantitative Evaluation Using High Resolution, Multitemporal ERS-2 SAR Images and NOAA-AVHRR Hotspot Data, F. Siegert, A. A. Hoffmann, 72:64 Hotspot and NDVI Differencing Synergy (HANDS): A New Technique for Burned Area Mapping over Boreal Forest, R. H. Fraser, Z. Li, J. Cihlar, 74:362

Floods

Satellite-Based Studies of the 1997 Oder Flood Event in the Southern Baltic Sea, H. Siegel, M. Gerth, 73:207

Forests

Application of Spherical Statistics to Change Vector Analysis of Landsat Data: Southern Appalachian Spruce–Fir Forests, T. R. Allen, J. A. Kupfer, 74:482 Central African Forest Cover Revisited: A Multisatellite Analysis, P. Mayaux, G. De Grandi, J.-P. Malingreau, 71:183

Chlorophyll Fluorescence Effects on Vegetation Apparent Reflectance: I. Leaf-Level Measurements and Model Simulation, P. J. Zarco-Tejada, J. R. Miller, G. H. Mohammed, T. L. Noland, 74:582

Chlorophyll Fluorescence Effects on Vegetation Apparent Reflectance: II. Laboratory and Airborne Canopy-Level Measurements with Hyperspectral Data, P. J. Zarco-Tejada, J. R. Miller, G. H. Mohammed, T. L. Noland, P. H. Sampson, 74:596

Determining Forest Structural Attributes Using an Inverted Geometric-Optical Model in Mixed Eucalypt Forests, Southeast Queensland, Australia, P. Scarth, S. Phinn, 71:141

A Directional Multispectral Forest Reflectance Model, A. Kuusk, T. Nilson, 72:244

ERS INSAR Data for Remote Sensing Hilly Forested Areas, T. Castel, J.-M. Martinez, A. Beaudoin, U. Wegmüller, T. Strozzi, 73:73

Estimating Error in an Analysis of Forest Fragmentation Change Using North American Landscape Characterization (NALC) Data, D. G. Brown, J.-D. Duh, S. A. Drzyzga, 71:106

Experimental Study of Brightness Surface Temperature Angular Variations of Maritime Pine (*Pinus pinaster*)

- Stands, J.-P. Lagouarde, H. Ballans, P. Moreau, D. Guyon, D. Coraboeuf, 72:17
- The 1998 Forest Fires in East Kalimantan (Indonesia): A Quantitative Evaluation Using High Resolution, Multitemporal ERS-2 SAR Images and NOAA-AVHRR Hotspot Data, F. Siegert, A. A. Hoffmann, 72:64
- High Spatial Resolution Remote Sensing Data for Forest Ecosystem Classification: An Examination of Spatial Scale, P. Treitz, P. Howarth, 72:268
- Hotspot and NDVI Differencing Synergy (HANDS): A New Technique for Burned Area Mapping over Boreal Forest, R. H. Fraser, Z. Li, J. Cihlar, 74:362
- The Influence of Field Sample Data Location on Growing Stock Volume Estimation in Landsat TM-Based Forest Inventory in Eastern Finland, T. Tokola, 74:422
- Interpretation of Polarimetric Radar Signatures of Mangrove Forests, C. Proisy, E. Mougin, F. Fromard, M. A. Karam, 71:56
- Local Maximum Filtering for the Extraction of Tree Locations an Basal Area from High Spatial Resolution Imagery, M. Wulder, K. O. Niemann, D. G. Goodenough, 73:103
- A Modeling Approach for Studying Forest Chlorophyll Content, V. Demarez, J. P. Gastellu-Etchegorry, 71:226
- A Parametric Hot Spot Model for Optical Remote Sensing Applications, J.-L. Roujean, 71:197
- A Quantitative Fuzzy Approach to Assess Mapped Vegetation Classifications for Ecological Applications, P. A. Townsend, 72:253
- Rain Storage in Forests Detected with ERS Tandem Mission SAR, J. de Jong, W. Klaassen, A. Ballast, 72:170
- Repeat-Pass Interferometric Coherence Measurements of Disturbed Tropical Forest from JERS and ERS Satellites, A. Luckman, J. Baker, U. Wegmüller, 73:350
- Retrieval of Leaf Area Index and Canopy Closure from CASI Data over the BOREAS Flux Tower Sites, B. Hu, K. Inannen, J. R. Miller, 74:255
- A Shortwave Infrared Modification to the Simple Ratio for LAI Retrieval in Boreal Forests: An Image and Model Analysis, L. Brown, J. M. Chen, S. G. Leblanc, J. Cihlar, 71:16
- Testing the Utility of Multi-angle Spectral Data for Reducing the Effects of Background Spectral Variations in Forest Reflectance Model Inversion, F. Gemmell, 72:46
- Using a Mensuration Approach with FIA Vegetation Plot Data to Assess the Accuracy of Tree Size and Crown Closure Classes in a Vegetation Map of Northeastern California, S. J. Gill, J. Milliken, D. Beardsley, R. Warbington, 73:298
- Utilizing Local Variance of Simulated High Spatial Resolution Imagery To Predict Spatial Pattern of Forest Stands, N. Coops, D. Culvenor, 71:248 View Zenith Angle Effects on the Forest Information

Content of Three Spectral Indices, F. Gemmel, A. J. McDonald, 72:139

Fuzzy

- Evaluation of Fuzzy Partitions, P. Matsakis, S. Andréfouët, P. Capolsini, 74:516
- A Quantitative Fuzzy Approach to Assess Mapped Vegetation Classifications for Ecological Applications, P. A. Townsend, 72:253

Gamma-Ray Spectrometry

Integration of Landsat TM, Gamma-Ray, Magnetic, and Field Data to Discriminate Lithological Units in Vegetated Granite-Gneiss Terrain, E. M. Schetselaar, C.-J. F. Chung, K. E. Kim, 71:89

Geology

- Integration of Landsat TM, Gamma-Ray, Magnetic, and Field Data to Discriminate Lithological Units in Vegetated Granite-Gneiss Terrain, E. M. Schetselaar, C.-J. F. Chung, K. E. Kim, 71:89
- Multivariate Analysis of Laboratory Spectra for the Assessment of Soil Development and Soil Degradation in the Southern Apennines (Italy), A. P. Leone, S. Sommer, 72:346
- Orbital Radar Studies of Paleodrainages in the Central Namib Desert, N. Lancaster, G. G. Schaber, J. T. Teller, 71:216

Geometric-Optical Model

- Determining Forest Structural Attributes Using an Inverted Geometric-Optical Model in Mixed Eucalypt Forests, Southeast Queensland, Australia, P. Scarth, S. Phinn, 71:141
- Testing the Utility of Multi-angle Spectral Data for Reducing the Effects of Background Spectral Variations in Forest Reflectance Model Inversion, F. Gemmell, 72:46
- Utilizing Local Variance of Simulated High Spatial Resolution Imagery To Predict Spatial Pattern of Forest Stands, N. Coops, D. Culvenor, 71:248

GOES

GOES-8 Imagery as a New Source of Data to Conduct Ocean Feature Tracking, L. C. Breaker, V. M. Krasnopolsky, E. M. Maturi, 73:198

GPS

The Application of Reflected GPS Signals to Ocean Remote Sensing, J. L. Garrison, S. J. Katzberg, 73:175 GPS Signal Scattering from Sea Surface: Wind Speed Retrieval Using Experimental Data and Theoretical Model, A. Komjathy, V. U. Zavorotny, P. Axelrad, G. H. Born, J. L. Garrison, 73:162 New Capabilities of the "SHOALS" Airborne Lidar Bathymeter, G. C. Guenther, M. W. Brooks, P. E. LaRocque, 73:247

Grasslands

Morphological Characteristics of Shrub Coppice Dunes in Desert Grasslands of Southern New Mexico derived from Scanning LIDAR, A. Rango, M. Chopping, J. Ritchie, K. Havstad, W. Kustas, T. Schmugge, 74:26

Testing a LiSK BRDF Model with in Situ Bidirectional Reflectance Factor Measurements over Semiarid Grasslands, M. J. Chopping, 74:287

Time Course of Radiation Use Efficiency in a Shortgrass Ecosystem: Consequences for Remotely Sensed Estimation of Primary Production, Y. Nouvellon, D. Lo Seen, S. Rambal, A. Bégué, M. S. Moran, Y. Kerr, J. Qi, 71:43

Hot Spot Model

A Parametric Hot Spot Model for Optical Remote Sensing Applications, J.-L. Roujean, 71:197

Hydrologic Modeling

Effects of Digital Elevation Model Accuracy on Hydrologic Predictions, T. Kenward, D. P. Lettenmaier, E. F. Wood, E. Fielding, 74:432

Images

An Anisotropic Spatial Modeling Approach for Remote Sensing Image Rectification, K.-S. Cheng, H.-C. Yeh, C.-H. Tsai, 73:46

Evaluation of Fuzzy Partitions, P. Matsakis, S. Andréfouët, P. Capolsini, 74:516

Evaluation of Two Applications of Spectral Mixing Models to Image Fusion, G. D. Robinson, H. N. Gross, J. R. Schott, 71:272

Selecting Representative High Resolution Sample Images for Land Cover Studies. Part 1: Methodology, J. Cihlar, R. Latifovic, J. Chen, J. Beaubien, Z. Li, 71:26

Selecting Representative High Resolution Sample Images for Land Cover Studies. Part 2: Application to Estimating Land Cover Composition, J. Cihlar, R. Latifovic, J. Chen, J. Beaubien, Z. Li, S. Magnussen, 72:127

Integral Equation Model

Multifrequency Soil Moisture Inversion from SAR Measurements with the Use of IEM, R. Bindlish, A. P. Barros, 71:67

Jornada, New Mexico, Experimental Range

A Biogeophysical Approach for Automated SWIR Unmixing of Soils and Vegetation, G. P. Asner, D. B. Lobell, 74:99

Characterizing the Spatial Variability of Broadband Albedo in a Semidesert Environment for MODIS Validation, M. J. Barnsley, P. D. Hobson, A. H. Hyman, W. Lucht, J.-P. Muller, A. H. Strahler, 74:58

A Comparison of Satellite-Derived Spectral Albedos to Ground-Based Broadband Albedo Measurements Modeled to Satellite Spatial Scale for a Semidesert Landscape, W. Lucht, A. H. Hyman, A. H. Strahler, M. J. Barnsley, P. Hobson, J.-P. Muller, 74:85

A Coupled Vegetation–Soil Bidirectional Reflectance Model for a Semiarid Landscape, W. Ni, X. Li, 74:113

3-D Scene Modeling of Semidesert Vegetation Cover and Its Radiation Regime, W. Qin, S. A. W. Gerstl, 74:145

The EOS Prototype Validation Exercise (PROVE) at Jornada: Overview and Lessons Learned, J. L. Privette, G. P. Asner, J. Conel, K. F. Huemmrich, R. Olson, A. Rango, A. F. Rahman, K. Thome, E. A. Walter-Shea, 74:1

Impact of Tissue, Canopy, and Landscape Factors on the Hyperspectral Reflectance Variability of Arid Ecosystems, G. P. Asner, C. A. Wessman, C. A. Bateson, J. L. Privette, 74:69

Jornada Experimental Range: A Unique Arid Land Location for Experiments to Validate Satellite Systems, K. M. Havstad, W. P. Kustas, A. Rango, J. C. Ritchie, T. J. Schmugge, 74:13

Large-Scale BRDF Retrieval over New Mexico with a Multiangular NOAA AVHRR Dataset, M. J. Chopping, 74:163

Measuring Fractional Cover and Leaf Area Index in Arid Ecosystems: Digital Camera, Radiation Transmittance, and Laser Altimetry Methods, M. A. White, G. P. Asner, R. R. Nemani, J. L. Privette, S. W. Running, 74:45

Morphological Characteristics of Shrub Coppice Dunes in Desert Grasslands of Southern New Mexico derived from Scanning LIDAR, A. Rango, M. Chopping, J. Ritchie, K. Havstad, W. Kustas, T. Schmugge, 74:26 Stochastic Modeling of Radiation Regime in

Discontinuous Vegetation Canopies, N. V. Shabanov, Y. Knyazikhin, F. Baret, R. B. Myneni, 74:125

Lakes

Determination of Chlorophyll Content and Trophic State of Lakes Using Field Spectrometer and IRS-1C Satellite Data in the Mecklenburg Lake District, Germany, S. Thiemann, H. Kaufmann, 73:227 Synergistic Remote Sensing of Lake Chad: Variability of Basin Inundation, C. M. Birkett, 72:218

Land Cover

Combining Multiple Classifiers: An Application Using Spatial and Remotely Sensed Information for Land Cover Type Mapping, B. M. Steele, 74:545 Comparison of Algorithms for Classifying Swedish Landcover Using Landsat TM and ERS-1 SAR Data, D. B. Michelson, B. M. Liljeberg, P. Pilesjö, 71:1 Integrating Contextual Information with per-Pixel Classification for Improved Land Cover Classification, J. Stuckens, P. R. Coppin, M. E. Bauer, 71:282 Selecting Representative High Resolution Sample Images for Land Cover Studies. Part 1: Methodology,

J. Cihlar, R. Latifovic, J. Chen, J. Beaubien, Z. Li, 71:26

Selecting Representative High Resolution Sample Images for Land Cover Studies. Part 2: Application to Estimating Land Cover Composition, J. Cihlar, R. Latifovic, J. Chen, J. Beaubien, Z. Li, S. Magnussen, 72:127

Surface Albedos and Angle-Corrected NDVI from AVHRR Observations of South America, B. Hu, W. Lucht, A. H. Strahler, C. B. Schaaf, M. Smith, 71:119

Landsat TM

Application of Spherical Statistics to Change Vector Analysis of Landsat Data: Southern Appalachian Spruce-Fir Forests, T. R. Allen, J. A. Kupfer, 74:482

Comparison of Algorithms for Classifying Swedish Landcover Using Landsat TM and ERS-1 SAR Data, D. B. Michelson, B. M. Liljeberg, P. Pilesjö, 71:1

Determining Forest Structural Attributes Using an Inverted Geometric-Optical Model in Mixed Eucalypt Forests, Southeast Queensland, Australia, P. Scarth, S. Phinn, 71:141

The Influence of Field Sample Data Location on Growing Stock Volume Estimation in Landsat TM-Based Forest Inventory in Eastern Finland, T. Tokola, 74:422

Integrating Contextual Information with per-Pixel Classification for Improved Land Cover Classification, J. Stuckens, P. R. Coppin, M. E. Bauer, 71:282

A Shortwave Infrared Modification to the Simple Ratio for LAI Retrieval in Boreal Forests: An Image and Model Analysis, L. Brown, J. M. Chen, S. G. Leblanc, J. Cihlar, 71:16

Landscape Metrics

Estimating Error in an Analysis of Forest Fragmentation Change Using North American Landscape Characterization (NALC) Data, D. G. Brown, J.-D. Duh, S. A. Drzyzga, 71:106

Leaf Area Index

Leaf Area Index Estimates Using Remotely Sensed Data and BRDF Models in a Semiarid Region, J. Qi, Y. H. Kerr, M. S. Moran, M. Weltz, A. R. Huete, S. Sorooshian, R. Bryant, 73:18

Measuring Fractional Cover and Leaf Area Index in Arid Ecosystems: Digital Camera, Radiation Transmittance, and Laser Altimetry Methods, M. A. White, G. P. Asner, R. R. Nemani, J. L. Privette, S. W. Running, 74:45

Retrieval of Leaf Area Index and Canopy Closure from

CASI Data over the BOREAS Flux Tower Sites, B. Hu, K. Inannen, J. R. Miller, 74:255

A Shortwave Infrared Modification to the Simple Ratio for LAI Retrieval in Boreal Forests: An Image and Model Analysis, L. Brown, J. M. Chen, S. G. Leblanc, J. Cihlar, 71:16

Lidar

Airborne Scanning Lidar Measurement of Ocean Waves, P. A. Hwang, W. B. Krabill, W. Wright, R. N. Swift, E. J. Walsh, 73:236

Morphological Characteristics of Shrub Coppice Dunes in Desert Grasslands of Southern New Mexico derived from Scanning LIDAR, A. Rango, M. Chopping, J. Ritchie, K. Havstad, W. Kustas, T. Schmugge, 74:26 New Capabilities of the "SHOALS" Airborne Lidar Bathymeter, G. C. Guenther, M. W. Brooks, P. E. LaRocque, 73:247

Magnetic Data

Integration of Landsat TM, Gamma-Ray, Magnetic, and Field Data to Discriminate Lithological Units in Vegetated Granite-Gneiss Terrain, E. M. Schetselaar, C.-J. F. Chung, K. E. Kim, 71:89

Mapping

Evaluation of Two Applications of Spectral Mixing Models to Image Fusion, G. D. Robinson, H. N. Gross, J. R. Schott, 71:272

Integration of Landsat TM, Gamma-Ray, Magnetic, and Field Data to Discriminate Lithological Units in Vegetated Granite-Gneiss Terrain, E. M. Schetselaar, C.-J. F. Chung, K. E. Kim, 71:89

Using a Mensuration Approach with FIA Vegetation Plot Data to Assess the Accuracy of Tree Size and Crown Closure Classes in a Vegetation Map of Northeastern California, S. J. Gill, J. Milliken, D. Beardsley, R. Warbington, 73:298

Utilizing Multiple Datasets for Snow-Cover Mapping, A. B. Tait, D. K. Hall, J. L. Foster, R. L. Armstrong, 72:111

Microwave Sensing

Classification Methods for Monitoring Arctic Sea Ice Using OKEAN Passive/Active Two-Channel Microwave Data, G. I. Belchansky, D. C. Douglas, 73:307

The Estimation of Land Surface Emissivities at 24 GHz to 157 GHz Using Remotely Sensed Aircraft Data, J. C. Morland, D. I. F. Grimes, G. Dugdale, T. J. Hewison, 73:323

Influence of Sensor Overpass Time on Passive Microwave-Derived Snow Cover Parameters, C. Derksen, E. LeDrew, A. Walker, B. Goodison, 71:297 A Neural Network Multiparameter Algorithm for SSM/I Ocean Retrievals: Comparisons and Validations, V. M.

Krasnopolsky, W. H. Gemmill, L. C. Breaker, 73:133

- Retrieval of Snow Water Equivalent Using Passive Microwave Brightness Temperature Data, P. R. Singh, T. Y. Gan, 74:275
- Two-Dimensional Microwave Interferometer Retrieval Capabilities over Land Surfaces (SMOS Mission), J.-P. Wigneron, P. Waldteufel, A. Chanzy, J.-C. Calvet, Y. Kerr, 73:270
- Wintertime Wind Forcing and Sea Surface Cooling Near the South India Tip Observed Using NSCAT and AVHRR, A. J. Luis, H. Kawamura, 73:55

Mixture Models

Hyperspectral Mixture Modeling for Quantifying Sparse Vegetation Cover in Arid Environments, K. McGwire, T. Minor, L. Fenstermaker, 72:360

Neural Network

- Estimation of Soil Physical Properties Using Remote Sensing and Artificial Neural Network, D.-H. Chang, S. Islam, 74:534
- A Neural Network Multiparameter Algorithm for SSM/I Ocean Retrievals: Comparisons and Validations, V. M. Krasnopolsky, W. H. Gemmill, L. C. Breaker, 73:133

North American Landscape Characterization (NALC)

Estimating Error in an Analysis of Forest Fragmentation Change Using North American Landscape Characterization (NALC) Data, D. G. Brown, J.-D. Duh, S. A. Drzyzga, 71:106

Ocean (See also Sea Surface Properties)

- Atmospheric Correction of SeaWiFS Imagery over Turbid Coastal Waters: A Practical Method, C. Hu, K. L. Carder, F. E. Muller-Karger, 74:195
- Dynamically Active Areas in the South China Sea Detected from TOPEX/POSEIDON Satellite Altimeter Data, C.-R. Ho, N.-J. Kuo, Q. Zheng, Y. S. Soong, 71:320
- A Neural Network Multiparameter Algorithm for SSM/I Ocean Retrievals: Comparisons and Validations, V. M. Krasnopolsky, W. H. Gemmill, L. C. Breaker, 73:133
- New Capabilities of the "SHOALS" Airborne Lidar Bathymeter, G. C. Guenther, M. W. Brooks, P. E. LaRocque, 73:247
- Optical Remote Sensing of Shallow-Water Environmental Parameters: A Feasibility Study, D. Durand, J. Bijaoui, F. Cauneau, 73:152
- Removing Path-Scattered Radiance from Over-Ocean Spectrometer Images for Water Vapor Estimation, C. G. Gelpi, 74:414
- Satellite Derived Sea Surface Temperature Variability Off California During the Upwelling Season, E. M. Armstrong, 73:1
- A Three-Component Model of Ocean Color and Its

- Application in the Ebro River Mouth Area, F. Lahet, S. Ouillon, P. Forget, 72:181
- Wintertime Wind Forcing and Sea Surface Cooling Near the South India Tip Observed Using NSCAT and AVHRR, A. J. Luis, H. Kawamura, 73:55

Ocean Color

OCTS-Derived Chlorophyll-*a* Concentration and Oceanic Structure in the Kuroshio Frontal Region off the Joban/Kashima Coast of Japan, K. Yokouchi, K. Takeshi, I. Matsumoto, G. Fujiwara, H. Kawamura, and K. Okuda, 73:188

Optical Remote Sensing

Optical Remote Sensing of Shallow-Water Environmental Parameters: A Feasibility Study, D. Durand, J. Bijaoui, F. Cauneau, 73:152 A Parametric Hot Spot Model for Optical Remote Sensing Applications, J.-L. Roujean, 71:197

Photosynthesis

Evaluation of a Model Adaptable to Satellite Data for Estimating Daily Gross Photosynthesis, B. J. Choudhury, 71:133

Plant Litter

Plant Litter and Soil Reflectance, P. L. Nagler, C. S. T. Daughtry, S. N. Goward, 71:207

Radar

- Analysis and Modeling of Atmospheric Gravity Waves Observed in RADARSAT SAR Images, I. Chunchuzov, P. W. Vachon, X. Li, 74:343
- Central African Forest Cover Revisited: A Multisatellite Analysis, P. Mayaux, G. De Grandi, J.-P. Malingreau, 71:183
- Comparison of Algorithms for Classifying Swedish Landcover Using Landsat TM and ERS-1 SAR Data, D. B. Michelson, B. M. Liljeberg, P. Pilesjö, 71:1
- ERS INSAR Data for Remote Sensing Hilly Forested Areas, T. Castel, J.-M. Martinez, A. Beaudoin, U. Wegmüller, T. Strozzi, 73:73
- Estimation of Watershed Soil Moisture Index from ERS/ SAR Data, A. Quesney, S. Le Hégarat-Mascle, O. Taconet, D. Vidal-Madjar, J. P. Wigneron, C. Loumagne, M. Normand, 72:290
- The 1998 Forest Fires in East Kalimantan (Indonesia): A Quantitative Evaluation Using High Resolution, Multitemporal ERS-2 SAR Images and NOAA-AVHRR Hotspot Data, F. Siegert, A. A. Hoffmann, 72:64
- Interpretation of Polarimetric Radar Signatures of Mangrove Forests, C. Proisy, E. Mougin, F. Fromard, M. A. Karam, 71:56
- Multifrequency Soil Moisture Inversion from SAR Measurements with the Use of IEM, R. Bindlish, A. P. Barros, 71:67

- Orbital Radar Studies of Paleodrainages in the Central Namib Desert, N. Lancaster, G. G. Schaber, J. T. Teller, 71:216
- Rain Storage in Forests Detected with ERS Tandem Mission SAR, J. de Jong, W. Klaassen, A. Ballast, 72:170
- Repeat-Pass Interferometric Coherence Measurements of Disturbed Tropical Forest from JERS and ERS Satellites, A. Luckman, J. Baker, U. Wegmüller, 73:350
- Resolution Improvement of ERS Scatterometer Data Over Land by Wiener Filtering, J. L. Álvarez-Pérez, S. J. Marshall, K. Gregson, 71:261
- Sand Dune Attributes Estimated from SAR Images, M. Qong, 74:217
- Spatial Filtering of Radar Data (RADARSAT) for Wetlands (Brackish Marshes) Classification, J. Noriega Rivera Rio, D. F. Lozano-García, 73:143
- Validation of a Rough Surface Model Based on Fractional Brownian Geometry with SIRC and ERASME Radar Data over Orgeval, M. Zribi, V. Ciarletti, O. Taconet, 73:65

Radiation Modeling

Validation of a Rough Surface Model Based on Fractional Brownian Geometry with SIRC and ERASME Radar Data over Orgeval, M. Zribi, V. Ciarletti, O. Taconet, 73:65

Rain

- The Estimation of Land Surface Emissivities at 24 GHz to 157 GHz Using Remotely Sensed Aircraft Data, J. C. Morland, D. I. F. Grimes, G. Dugdale, T. J. Hewison, 73:323
- Rain Storage in Forests Detected with ERS Tandem Mission SAR, J. de Jong, W. Klaassen, A. Ballast, 72:170

Reflectance Measurement

- Acquisition of Bidirectional Reflectance Factor Data with Field Goniometers, S. R. Sandmeier, 73:257 A Biogeophysical Approach for Automated SWIR Unmixing of Soils and Vegetation, G. P. Asner, D. B. Lobell, 74:99
- BRDF Correction of Vegetation in AVHRR Imagery, J. D. Shepherd, J. R. Dymond, 74:397
- Characterizing the Spatial Variability of Broadband Albedo in a Semidesert Environment for MODIS Validation, M. J. Barnsley, P. D. Hobson, A. H. Hyman, W. Lucht, L.-P. Muller, A. H. Strahler, 74:58
- Hyman, W. Lucht, J.-P. Muller, A. H. Strahler, 74:58 A Comparison of Satellite-Derived Spectral Albedos to Ground-Based Broadband Albedo Measurements Modeled to Satellite Spatial Scale for a Semidesert Landscape, W. Lucht, A. H. Hyman, A. H. Strahler, M. J. Barnsley, P. Hobson, J.-P. Muller, 74:85

Deriving Water Content of Chaparral Vegetation from

- AVIRIS Data, L. Serrano, S. L. Ustin, D. A. Roberts, J. A. Gamon, J. Peñuelas, 74:570
- Hyperspectral Vegetation Indices and Their Relationships with Agricultural Crop Characteristics, P. S. Thenkabail, R. B. Smith, E. De Pauw, 71:158
- Impact of Tissue, Canopy, and Landscape Factors on the Hyperspectral Reflectance Variability of Arid Ecosystems, G. P. Asner, C. A. Wessman, C. A. Bateson, J. L. Privette, 74:69
- Measurement and Modeling of the Spectral and Directional Reflection Properties of Lichen and Moss Canopies, I. Solheim, O. Engelsen, B. Hosgood, G. Andreoli, 72:78
- A Modeling Approach for Studying Forest Chlorophyll Content, V. Demarez, J. P. Gastellu-Etchegorry, 71:226
- Plant Litter and Soil Reflectance, P. L. Nagler, C. S. T. Daughtry, S. N. Goward, 71:207
- Surface Albedos and Angle-Corrected NDVI from AVHRR Observations of South America, B. Hu, W. Lucht, A. H. Strahler, C. B. Schaaf, M. Smith, 71:119
- Testing the Utility of Multi-angle Spectral Data for Reducing the Effects of Background Spectral Variations in Forest Reflectance Model Inversion, F. Gemmell, 72:46

Reflectance Modeling

- A Coupled Vegetation–Soil Bidirectional Reflectance Model for a Semiarid Landscape, W. Ni, X. Li, 74:113 A Directional Multispectral Forest Reflectance Model, A. Kuusk, T. Nilson, 72:244
- Large-Scale BRDF Retrieval over New Mexico with a Multiangular NOAA AVHRR Dataset, M. J. Chopping, 74:163
- Leaf Area Index Estimates Using Remotely Sensed Data and BRDF Models in a Semiarid Region, J. Qi, Y. H. Kerr, M. S. Moran, M. Weltz, A. R. Huete, S. Sorooshian, R. Bryant, 73:18
- A Mixture Modeling Approach to Estimate Vegetation Parameters for Heterogeneous Canopies in Remote Sensing, M. A. Gilabert, F. J. García-Haro, J. Meliá, 72:328
- Optical Remote Sensing of Shallow-Water Environmental Parameters: A Feasibility Study, D. Durand, J. Bijaoui, F. Cauneau, 73:152
- Retrieval of Leaf Area Index and Canopy Closure from CASI Data over the BOREAS Flux Tower Sites, B. Hu, K. Inannen, J. R. Miller, 74:255
- Testing a LiSK BRDF Model with in Situ Bidirectional Reflectance Factor Measurements over Semiarid Grasslands, M. J. Chopping, 74:287
- A Three-Component Model of Ocean Color and Its Application in the Ebro River Mouth Area, F. Lahet, S. Ouillon, P. Forget, 72:181

Resolution

Resolution Improvement of ERS Scatterometer Data

Over Land by Wiener Filtering, J. L. Álvarez-Pérez, S. J. Marshall, K. Gregson, 71:261

Selecting Representative High Resolution Sample Images for Land Cover Studies. Part 1: Methodology, J. Cihlar, R. Latifovic, J. Chen, J. Beaubien, Z. Li, 71:26

Selecting Representative High Resolution Sample Images for Land Cover Studies. Part 2: Application to Estimating Land Cover Composition, J. Cihlar, R. Latifovic, J. Chen, J. Beaubien, Z. Li, S. Magnussen, 72:127

Rivers

Satellite-Based Studies of the 1997 Oder Flood Event in the Southern Baltic Sea, H. Siegel, M. Gerth, 73:207

Sampling Inference

Practical Implications of Design-Based Sampling Inference for Thematic Map Accuracy Assessment, S. V. Stehman, 72:35

Scatterometer

Resolution Improvement of ERS Scatterometer Data Over Land by Wiener Filtering, J. L. Álvarez-Pérez, S. J. Marshall, K. Gregson, 71:261

Soil Moisture (Water-Content) Assessment by an Airborne Scatterometer: The Chernobyl Disaster Area and the Negev Desert, D. G. Blumberg, V. Freilikher, I. V. Lyalko, L. D. Vulfson, A. L. Kotlyar, V. N. Shevchenko, A. D. Ryabokonenko, 71:309

Sea Ice

Classification Methods for Monitoring Arctic Sea Ice Using OKEAN Passive/Active Two-Channel Microwave Data, G. I. Belchansky, D. C. Douglas, 73:307

Sea Surface Properties

Advective Surface Velocities Derived from Sequential Infrared Images in the Southwestern Atlantic Ocean, C. M. Domingues, G. A. Gonçalves, R. D. Ghisolfi, C. A. E. Garcia, 73:218

Airborne Scanning Lidar Measurement of Ocean Waves, P. A. Hwang, W. B. Krabill, W. Wright, R. N. Swift, E. J. Walsh, 73:236

The Application of Reflected GPS Signals to Ocean Remote Sensing, J. L. Garrison, S. J. Katzberg, 73:175 Dynamically Active Areas in the South China Sea Detected from TOPEX/POSEIDON Satellite Altimeter Data, C.-R. Ho, N.-J. Kuo, Q. Zheng, Y. S. Soong,

71:320 GOES-8 Imagery as a New Source of Data to Conduct Ocean Feature Tracking, L. C. Breaker, V. M. Krasnopolsky, E. M. Maturi, 73:198

GPS Signal Scattering from Sea Surface: Wind Speed Retrieval Using Experimental Data and Theoretical Model, A. Komjathy, V. U. Zavorotny, P. Axelrad, G. H. Born, J. L. Garrison, 73:162

Satellite Derived Sea Surface Temperature Variability Off California During the Upwelling Season, E. M. Armstrong, 73:1

Satellite Observation of Upwelling along the Western Coast of the South China Sea, N.-J. Kuo, Q. Zheng, C.-R. Ho, 74:463

Wintertime Wind Forcing and Sea Surface Cooling Near the South India Tip Observed Using NSCAT and AVHRR, A. J. Luis, H. Kawamura, 73:55

Shortwave Infrared

A Shortwave Infrared Modification to the Simple Ratio for LAI Retrieval in Boreal Forests: An Image and Model Analysis, L. Brown, J. M. Chen, S. G. Leblanc, J. Cihlar, 71:16

Snow

A Hyperspectral Method for Remotely Sensing the Grain Size of Snow, A. W. Nolin, J. Dozier, 74:207 Influence of Sensor Overpass Time on Passive Microwave-Derived Snow Cover Parameters, C. Derksen, E. LeDrew, A. Walker, B. Goodison, 71:297 Retrieval of Snow Water Equivalent Using Passive Microwave Brightness Temperature Data, P. R. Singh, T. Y. Gan, 74:275

Utilizing Multiple Datasets for Snow-Cover Mapping, A. B. Tait, D. K. Hall, J. L. Foster, R. L. Armstrong, 72:111

Soil Properties

Characterisation of the Soil Structure and Microwave Backscattering Based on Numerical Three-Dimensional Surface Representation: Analysis with a Fractional Brownian Model, M. Zribi, V. Ciarletti, O. Taconet, J. Paillé, P. Boissard, 72:159

Estimation of Soil Physical Properties Using Remote Sensing and Artificial Neural Network, D.-H. Chang, S. Islam, 74:534

Estimation of Watershed Soil Moisture Index from ERS/ SAR Data, A. Quesney, S. Le Hégarat-Mascle, O. Taconet, D. Vidal-Madjar, J. P. Wigneron, C. Loumagne, M. Normand, 72:290

Mapping Complex Patterns of Erosion and Stability in Dry Mediterranean Ecosystems, J. Hill, B. Schütt, 74:557

Multifrequency Soil Moisture Inversion from SAR Measurements with the Use of IEM, R. Bindlish, A. P. Barros, 71:67

Multivariate Analysis of Laboratory Spectra for the Assessment of Soil Development and Soil Degradation in the Southern Apennines (Italy), A. P. Leone, S. Sommer, 72:346

Soil Moisture (Water-Content) Assessment by an Airborne Scatterometer: The Chernobyl Disaster Area and the Negev Desert, D. G. Blumberg, V. Freilikher, I. V. Lyalko, L. D. Vulfson, A. L. Kotlyar, V. N. Shevchenko, A. D. Ryabokonenko, 71:309

Two-Dimensional Microwave Interferometer Retrieval Capabilities over Land Surfaces (SMOS Mission), J.-P. Wigneron, P. Waldteufel, A. Chanzy, J.-C. Calvet, Y. Kerr, 73:270

Validation of a Rough Surface Model Based on Fractional Brownian Geometry with SIRC and ERASME Radar Data over Orgeval, M. Zribi, V. Ciarletti, O. Taconet, 73:65

Spatial Modeling

An Anisotropic Spatial Modeling Approach for Remote Sensing Image Rectification, K.-S. Cheng, H.-C. Yeh, C.-H. Tsai, 73:46

Predicting the Areal Extent of Land-Cover Types Using Classified Imagery and Geostatistics, S. de Bruin, 74:387

Spatial Resolution

High Spatial Resolution Remote Sensing Data for Forest Ecosystem Classification: An Examination of Spatial Scale, P. Treitz, P. Howarth, 72:268

Local Maximum Filtering for the Extraction of Tree Locations an Basal Area from High Spatial Resolution Imagery, M. Wulder, K. O. Niemann, D. G. Goodenough, 73:103

Utilizing Local Variance of Simulated High Spatial Resolution Imagery To Predict Spatial Pattern of Forest Stands, N. Coops, D. Culvenor, 71:248

Spectral Data

A Comparison of Satellite-Derived Spectral Albedos to Ground-Based Broadband Albedo Measurements Modeled to Satellite Spatial Scale for a Semidesert Landscape, W. Lucht, A. H. Hyman, A. H. Strahler, M. J. Barnsley, P. Hobson, J.-P. Muller, 74:85 Evaluation of Two Applications of Spectral Mixing Models to Image Fusion, G. D. Robinson, H. N. Gross, J. R. Schott, 71:272

Linear Mixture Modeling Approach for Estimating Cotton Canopy Ground Cover using Satellite Multispectral Imagery, S. J. Mass, 72:304

Testing the Utility of Multi-angle Spectral Data for Reducing the Effects of Background Spectral Variations in Forest Reflectance Model Inversion, F. Gemmell, 72:46

Spectral Indices

Multivariate Analysis of Laboratory Spectra for the Assessment of Soil Development and Soil Degradation in the Southern Apennines (Italy), A. P. Leone, S. Sommer, 72:346

Quantifying Vegetation Change in Semiarid Environments: Precision and Accuracy of Spectral Mixture Analysis and the Normalized Difference Vegetation Index, A. J. Elmore, J. F. Mustard, S. J. Manning, D. B. Lobell, 73:87 View Zenith Angle Effects on the Forest Information Content of Three Spectral Indices, F. Gemmel, A. J.

Statistics

Characterisation of the Soil Structure and Microwave Backscattering Based on Numerical Three-Dimensional Surface Representation: Analysis with a Fractional Brownian Model, M. Zribi, V. Ciarletti, O. Taconet, J. Paillé, P. Boissard, 72:159

Stochastic Modeling

McDonald, 72:139

Stochastic Modeling of Radiation Regime in Discontinuous Vegetation Canopies, N. V. Shabanov, Y. Knyazikhin, F. Baret, R. B. Myneni, 74:125

Surface Temperature

Experimental Study of Brightness Surface Temperature Angular Variations of Maritime Pine (*Pinus pinaster*) Stands, J.-P. Lagouarde, H. Ballans, P. Moreau, D. Guyon, D. Coraboeuf, 72:17

Two-Dimensional Microwave Interferometer Retrieval Capabilities over Land Surfaces (SMOS Mission), J.-P. Wigneron, P. Waldteufel, A. Chanzy, J.-C. Calvet, Y. Kerr, 73:270

Temporal

Improved Estimates of Hourly Insolation from GMS S-VISSR Data, S. Tanahashi, H. Kawamura, T. Matsuura, T. Takahashi, H. Yusa, 74:409
Influence of Sensor Overpass Time on Passive Microwave-Derived Snow Cover Parameters, C. Derksen, E. LeDrew, A. Walker, B. Goodison, 71:297
Quantifying Vegetation Change in Semiarid Environments: Precision and Accuracy of Spectral Mixture Analysis and the Normalized Difference Vegetation Index, A. J. Elmore, J. F. Mustard, S. J. Manning, D. B. Lobell, 73:87

Thematic Mapping

Practical Implications of Design-Based Sampling Inference for Thematic Map Accuracy Assessment, S. V. Stehman, 72:35

Thermal Measurements

Discrimination of Senescent Vegetation Using Thermal Emissivity Contrast, A. N. French, T. J. Schmugge, W. P. Kustas, 74:249

A Diurnal Animation of Thermal Images from a Day–Night Pair, K. Watson, 72:237

A Front-Following Algorithm for AVHRR SST Imagery, A. G. P. Shaw, R. Vennell, 72:317 **Topography**

Effects of Digital Elevation Model Accuracy on Hydrologic Predictions, T. Kenward, D. P. Lettenmaier, E. F. Wood, E. Fielding, 74:432 ERS INSAR Data for Remote Sensing Hilly Forested Areas, T. Castel, J.-M. Martinez, A. Beaudoin, U. Wegmüller, T. Strozzi, 73:73

Morphological Characteristics of Shrub Coppice Dunes in Desert Grasslands of Southern New Mexico Derived from Scanning LIDAR, A. Rango, M. Chopping, J. Ritchie, K. Havstad, W. Kustas, T. Schmugge, 74:26 Sand Dune Attributes Estimated from SAR Images, M. Qong, 74:217

Validation (See also Jornada)

A Neural Network Multiparameter Algorithm for SSM/I Ocean Retrievals: Comparisons and Validations, V. M. Krasnopolsky, W. H. Gemmill, L. C. Breaker, 73:133 Validation of a Rough Surface Model Based on Fractional Brownian Geometry with SIRC and ERASME Radar Data over Orgeval, M. Zribi, V. Ciarletti, O. Taconet, 73:65

Vegetation Indices

Analysis of Vegetation Isolines in Red-NIR Reflectance Space, H. Yoshioka, T. Miura, A. R. Huete, B. D. Ganapol, 74:313

Hyperspectral Mixture Modeling for Quantifying Sparse Vegetation Cover in Arid Environments, K. McGwire, T. Minor, L. Fenstermaker, 72:360

Hyperspectral Vegetation Indices and Their Relationships with Agricultural Crop Characteristics, P. S. Thenkabail, R. B. Smith, E. De Pauw, 71:158 Interannual Variability of Vegetation in the United States and Its Relation to El Niño/Southern Oscillation, Z. Li, M. Kafatos, 74:239

A Mixture Modeling Approach to Estimate Vegetation Parameters for Heterogeneous Canopies in Remote Sensing, M. A. Gilabert, F. J. García-Haro, J. Meliá, 72:328

Optical-Biophysical Relationships of Vegetation Spectra without Background Contamination, X. Gao, A. R. Huete, W. Ni, T. Miura, 74:609

Plant Litter and Soil Reflectance, P. L. Nagler, C. S. T. Daughtry, S. N. Goward, 71:207

Surface Albedos and Angle-Corrected NDVI from AVHRR Observations of South America, B. Hu, W. Lucht, A. H. Strahler, C. B. Schaaf, M. Smith, 71:119

Quantifying Vegetation Change in Semiarid Environments: Precision and Accuracy of Spectral Mixture Analysis and the Normalized Difference Vegetation Index, A. J. Elmore, J. F. Mustard, S. J. Manning, D. B. Lobell, 73:87

Quantitative Improvement in the Estimates of NDVI Values for Remotely Sensed Data by Correcting Thin Cirrus Scattering Effects, B.-C. Gao, R.-R. Li, 74:494

View Zenith Angle Effects on the Forest Information Content of Three Spectral Indices, F. Gemmel, A. J. McDonald, 72:139

Vegetation Mapping

BRDF Correction of Vegetation in AVHRR Imagery, J. D. Shepherd, J. R. Dymond, 74:397

Central African Forest Cover Revisited: A Multisatellite Analysis, P. Mayaux, G. De Grandi, J.-P. Malingreau, 71:183

Combining Multiple Classifiers: An Application Using Spatial and Remotely Sensed Information for Land Cover Type Mapping, B. M. Steele, 74:545

ERS INSAR Data for Remote Sensing Hilly Forested Areas, T. Castel, J.-M. Martinez, A. Beaudoin, U. Wegmüller, T. Strozzi, 73:73

The 1998 Forest Fires in East Kalimantan (Indonesia): A Quantitative Evaluation Using High Resolution, Multitemporal ERS-2 SAR Images and NOAA-AVHRR Hotspot Data, F. Siegert, A. A. Hoffmann, 72:64

High Spatial Resolution Remote Sensing Data for Forest Ecosystem Classification: An Examination of Spatial Scale, P. Treitz, P. Howarth, 72:268

Hotspot and NDVI Differencing Synergy (HANDS): A New Technique for Burned Area Mapping over Boreal Forest, R. H. Fraser, Z. Li, J. Cihlar, 74:362

Integrating Contextual Information with per-Pixel Classification for Improved Land Cover Classification, J. Stuckens, P. R. Coppin, M. E. Bauer, 71:282

Morphological Characteristics of Shrub Coppice Dunes in Desert Grasslands of Southern New Mexico derived from Scanning LIDAR, A. Rango, M. Chopping, J. Ritchie, K. Havstad, W. Kustas, T. Schmugge, 74:26

Multiple Criteria for Evaluating Machine Learning Algorithms for Land Cover Classification from Satellite Data, R. S. DeFries, J. C.-W. Chan, 74:503

A Quantitative Fuzzy Approach to Assess Mapped Vegetation Classifications for Ecological Applications, P. A. Townsend, 72:253

Vegetation Properties

Chlorophyll Fluorescence Effects on Vegetation Apparent Reflectance: I. Leaf-Level Measurements and Model Simulation, P. J. Zarco-Tejada, J. R. Miller, G. H. Mohammed, T. L. Noland, 74:582

Chlorophyll Fluorescence Effects on Vegetation Apparent Reflectance: II. Laboratory and Airborne Canopy-Level Measurements with Hyperspectral Data, P. J. Zarco-Tejada, J. R. Miller, G. H. Mohammed, T. L. Noland, P. H. Sampson, 74:596

Comparison of Four Radiative Transfer Models to Simulate Plant Canopies Reflectance: Direct and Inverse Mode, S. Jacquemoud, C. Bacour, H. Poilvé, J.-P. Frangi, 74:471

Deriving Water Content of Chaparral Vegetation from

- AVIRIS Data, L. Serrano, S. L. Ustin, D. A. Roberts, J. A. Gamon, J. Peñuelas, 74:570
- Discrimination of Senescent Vegetation Using Thermal Emissivity Contrast, A. N. French, T. J. Schmugge, W. P. Kustas, 74:249
- Measurement and Modeling of the Spectral and Directional Reflection Properties of Lichen and Moss Canopies, I. Solheim, O. Engelsen, B. Hosgood, G. Andreoli, 72:78
- Rain Storage in Forests Detected with ERS Tandem Mission SAR, J. de Jong, W. Klaassen, A. Ballast, 72:170
- Steady-State and Maximum Chlorophyll Fluorescence Responses to Water Stress in Grapevine Leaves: A New Remote Sensing System, J. Flexas, J.-M. Briantais, Z. Cerovic, H. Medrano, I. Moya, 73:283
- Stochastic Modeling of Radiation Regime in Discontinuous Vegetation Canopies, N. V. Shabanov, Y. Knyazikhin, F. Baret, R. B. Myneni, 74:125
- Two-Dimensional Microwave Interferometer Retrieval Capabilities over Land Surfaces (SMOS Mission), J.-P. Wigneron, P. Waldteufel, A. Chanzy, J.-C. Calvet, Y. Kerr, 73:270

Volcanoes

Failures in Detecting Volcanic Ash from a Satellite-Based Technique, J. J. Simpson, G. Hufford, D. Pieri, J. Berg, 72:191

Water Properties

Deriving Water Content of Chaparral Vegetation from AVIRIS Data, L. Serrano, S. L. Ustin, D. A. Roberts, J. A. Gamon, J. Peñuelas, 74:570 Removing Path-Scattered Radiance from Over-Ocean Spectrometer Images for Water Vapor Estimation, C. G. Gelpi, 74:414

Wind

- Analysis and Modeling of Atmospheric Gravity Waves Observed in RADARSAT SAR Images, I. Chunchuzov, P. W. Vachon, X. Li, 74:343
- The Application of Reflected GPS Signals to Ocean Remote Sensing, J. L. Garrison, S. J. Katzberg, 73:175
- A Comparative Study of Meteosat, ECMWF, and Radiosonde Wind Vectors at Istanbul, A. B. Orun, K. Natarajan, Z. Aslan, 72:309
- Evaluating the Effects of Subpixel Heterogeneity on Pixel Average Fluxes, W. P. Kustas, J. M. Norman, 74:327
- GPS Signal Scattering from Sea Surface: Wind Speed Retrieval Using Experimental Data and Theoretical Model, A. Komjathy, V. U. Zavorotny, P. Axelrad, G. H. Born, J. L. Garrison, 73:162
- Improved Estimates of Hourly Insolation from GMS S-VISSR Data, S. Tanahashi, H. Kawamura, T. Matsuura, T. Takahashi, H. Yusa, 74:409
- A Neural Network Multiparameter Algorithm for SSM/I Ocean Retrievals: Comparisons and Validations, V. M. Krasnopolsky, W. H. Gemmill, L. C. Breaker, 73:133
- Satellite Observation of Upwelling along the Western Coast of the South China Sea, N.-J. Kuo, Q. Zheng, C.-R. Ho, 74:463
- Wintertime Wind Forcing and Sea Surface Cooling Near the South India Tip Observed Using NSCAT and AVHRR, A. J. Luis, H. Kawamura, 73:55